Table 2G-6. Yaw Angle Calibration

Probe Type: _____   Tester(s): _____

Probe ID: _____   Affiliation: _____

Test Location: _____   Date: _____

Nominal Velocity Setting in m/sec (ft/sec)	Repetition 1		Repetition 2	
	θ_{null} (degrees)	R_{SLO} (degrees)*	θ_{null} (degrees)	R_{SLO} (degrees)*
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Average of all recorded R_{SLO} values: _____

* Include magnitude and algebraic sign in accordance with section 10.5.6.

Table 2G-7. Determining the Magnitude of Reference Scribe Line Offset

Probe/Angle-Measuring Device	Magnitude of R_{SLO}
Type S probe with inclinometer	θ_{null}
Type S probe with protractor wheel and pointer	$90° - \theta_{null}$
3-D probe with inclinometer	$90° - \theta_{null}$
3-D probe with protractor wheel and pointer	θ_{null}

Table 2G-8. Probe Calibration for Method 2G

Wind Tunnel Facility: _____

Wind Tunnel Location: _____

Probe Type: _____

Probe ID: _____

Probe Calibration Date: _____

Test Point Location: _____

Ambient Temperature (°F): _____

Barometric Pressure (P_{bar}): _____

| Repetition | Low Velocity Setting (ft/sec) | Calibration Pitot | | Tested Probe | | Calculated C_p or F_2 |
		ΔP_{std} (in. H_2O)	Temp. (°F)	ΔP or P_1-P_2 (in. H_2O)	Yaw Angle (°)	
1						
2						
3						
Average ($C_{p(avg-low)}$) =						

| Repetition | High Velocity Setting (ft/sec) | Calibration Pitot | | Tested Probe | | Calculated C_p or F_2 |
		ΔP_{std} (in. H_2O)	Temp. (°F)	ΔP or P_1-P_2 (in. H_2O)	Yaw Angle (°)	
1						
2						
3						
Average ($C_{p(avg-high)}$) =						

$$\% \text{ Difference} = \frac{C_{p(avg-low)} - C_{p(avg-high)}}{C_{p(avg-low)}} \times 100\% = \underline{\hspace{1cm}}\%$$

Note: (1) The percent difference between the low and high velocity setting C_p values shall be within ±3 percent.

(2) If calibrating a 3-D probe for this method, the pitch angle setting must be 0°.

128